Village of Villa Park

Permitting Division

11 W. Home Villa Park, Illinois 60181

P: (630) 834-8505 F: (630) 834-8509

Email: permits@invillapark.com

Photovoltaic Installation

PERMIT APPLICATION

The Village of Villa Park requires a permit prior to beginning any construction.
To obtain a permit, the following is required:

- Completed Permit Application
- 2 copies of the manufacturer's specifications for the solar panels
- 2 copies of stamped engineering plans with the following:
    - The roof be structurally capable of supporting the load of the modules and
    - racking;
    - The modules and racking be non-combustible
    - Roof or wall penetrations (such as to attach the racking to the roof) be flashed and sealed to prevent water, rodents, or insects from entry.
    - Requires that rooftop solar systems have the same fire classification as the roof assembly

- Minimum design loads for rooftop solar PV systems, including guidance on wind load engineering calculations.
- Grounding electrodes
- Identification of equipment grounding conductors
- Visible disconnect switch and labeling is required
- Rapid disconnect switch that must be located on the rooftop within 6 feet of the PV system.

The IFC requires three-foot-wide access pathways from the eave to the ridge of a roof.

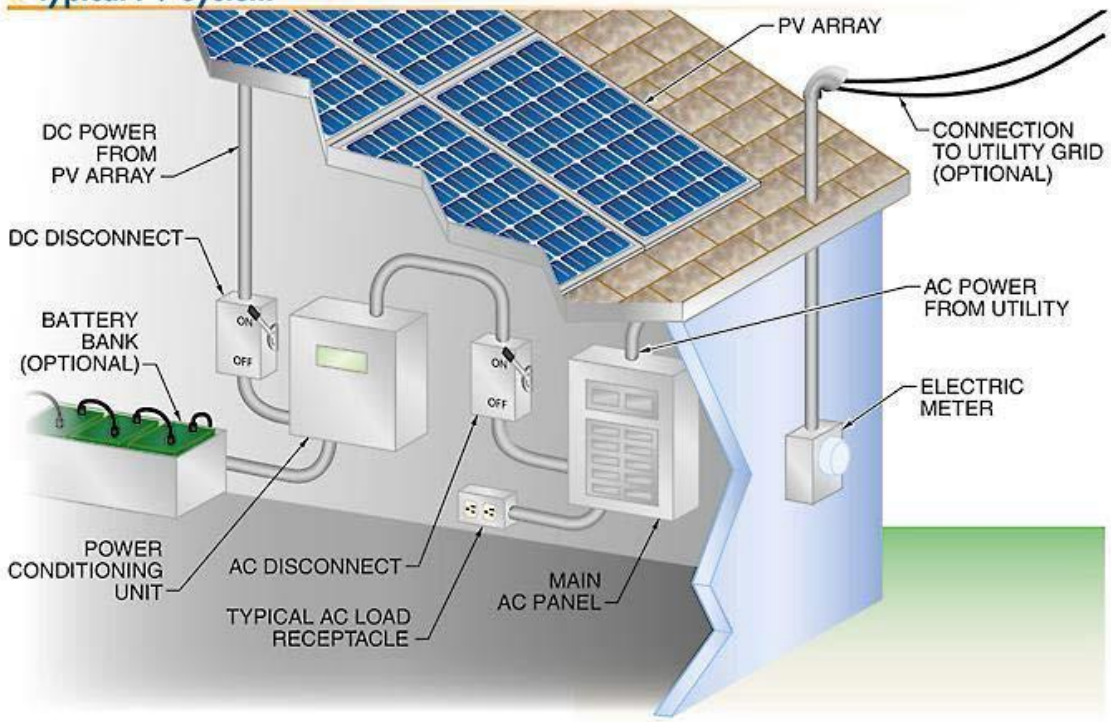
The photovoltaic system disconnecting means shall have permanent labels applied to identify it as a photovoltaic system disconnect.

INSPECTIONS REQUIRED

Final structural (if applicable)

Final electrical Inspection

Typical PV System



Solar Labeling Requirements

2014 NEC Edition

Junction Box & Conduit Raceways

NEC 690.31(G)(1, 3, and 4)- DC CONDUIT

WARNING
PHOTOVOLTAIC POWER SOURCE

NEC 690.35(F) - UNGROUNDED SYSTEM JUNCTION BOXES

WARNING
ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.

DC Disconnects

NEC 690.17(E)

WARNING
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.

NEC 690.35(F) - UNGROUNDED SYSTEMS

WARNING
ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.

NEC 690.13(B)

PHOTOVOLTAIC DC DISCONNECT

NEC 690.53

RATED MAX POWER-POINT CURRENT
RATED MAX POWER-POINT VOLTAGE
MAXIMUM SYSTEM VOLTAGE
SHORT CIRCUIT CURRENT

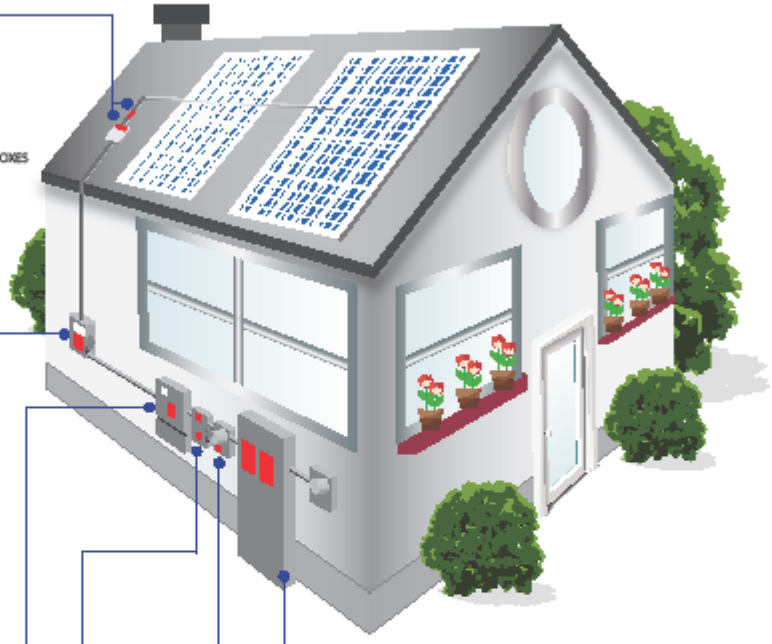
Inverter

NEC 690.5(C) GROUNDED INVERTERS ONLY

WARNING
ELECTRIC SHOCK HAZARD
IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

NEC690.35(F) UNGROUNDED INVERTERS/ JUNCTION BOXES

WARNING
ELECTRICAL SHOCK HAZARD.
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.



Production Meter

NOT A CODE REQUIREMENT

PHOTOVOLTAIC SYSTEM METER

AC Disconnects

NEC 690.13(B)

PHOTOVOLTAIC AC DISCONNECT

NEC 690.54

NOMINAL AC VOLTAGE:
RATED AC OUTPUT CURRENT:

NEC 705.12(D)(3)

WARNING DUAL POWER SOURCE
SECOND SOURCE IS PV SYSTEM

Main Service Panel

NEC 705.12(D)(2)(3)(b) NEAR PV BREAKER

WARNING
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS OVERCURRENT PROTECTION DEVICE

NEC 705.12(D)(3), NEC 705.10, NEC 690.56(B) – ON PANEL COVER

WARNING DUAL POWER SOURCE
POWER IS BEING SUPPLIED TO THIS PANEL FROM THE UTILITY AND A SOLAR PV SYSTEM. THE SOLAR PV DISCONNECT IS LOCATED:
Location description or map here

NEC 690.13(B) – NEAR PV BREAKER

PHOTOVOLTAIC AC DISCONNECT

NEC 690.54 - ON PANEL COVER

NOMINAL AC VOLTAGE:
RATED AC OUTPUT CURRENT:

NEC 690.56(C)- SYSTEMS WITH RAPID SHUTDOWN, LOCATION NOT SPECIFIED BY NEC

PHOTOVOLTAIC SYSTEM EQUIPED WITH RAPID SHUTDOWN